

LAKE: SCRAGGLEY L (VLMP SCW )  
TOWN: T05 R01 NBPP  
COUNTY: PENOBSCOT

MIDAS: 9649  
TRUE BASIN: 1  
SAMPLE STATION: 1

#### WHOLE LAKE INFORMATION

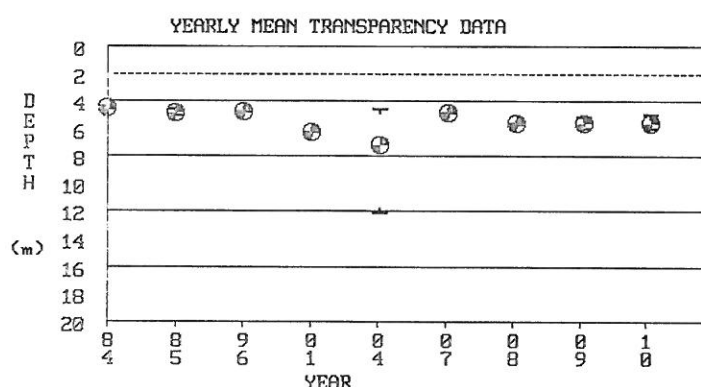
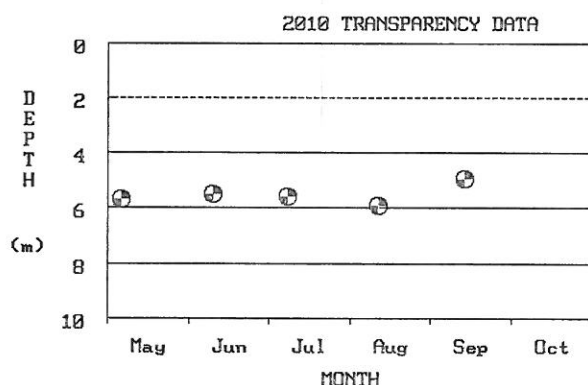
MAX. DEPTH: 13 m. (42 ft.)  
MEAN DEPTH: 7 m. (22 ft.)  
DELORME ATLAS #: 35  
USGS QUAD: SCRAGGLEY LAKE  
IFW REGION F: Penobscot (Enfield)  
IFW FISH. MANAGMENT: Warmwater & Coldwater

#### TRUE BASIN CHARACTERISTICS

SURFACE AREA: 700.1 ha. (1729.9 a.)  
FLUSHING RATE: 2.51 flushes/yr.  
VOLUME: 20298688.0 cu. m. (16466 ac.-ft.)  
DIRECT DRAINAGE AREA: 29.52 sq. km. (11.40 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. SCRAGGLEY L has 1 True Basin(s).

#### SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

#### SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[\* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
	(SPU)		(mg/l)	(uS	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI PHOS			
				/cm)	CORE	GRAB	GRAB	GRAB								C	G	SEC	CHL
1984	-	-	-	-	-	-	-	-	4.3	4.4	4.5	2	-	-	-	-	-	-	-
1985	30	6.80	6.0	28	-	-	-	-	4.5	4.8	5.0	3	-	-	-	-	-	-	-
1996	22	-	6.0	25	8	-	15	-	4.7	4.7	4.7	1	3.7	3.7	3.7	-	-	-	-
2001	20	7.44	-	-	-	-	-	-	6.2	6.2	6.2	1	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	4.5	7.1	12.1	3	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-	4.8	4.8	4.8	1	-	-	-	-	-	-	-
2008	30	6.68	5.3	23	8	-	35	-	5.5	5.5	5.6	1	3.3	3.3	3.3	-	-	-	-
2009	31	6.07	7.2	20	9	-	-	-	5.1	5.5	5.9	4	2.0	2.7	3.1	-	-	-	-
2010	21	5.81	6.6	22	8	-	-	-	4.9	5.5	5.9	5	1.9	2.8	3.4	36	-	43	38
SUMMARY:	26	6.25	6.2	24	8	-	25	-	4.3	5.4	12.1	9	1.9	3.1	3.7	36	-	43	38

LAKE: SCRAGGLEY L (VLMP SCW )  
TOWN: T05 R01 NBPP  
COUNTY: PENOBSCOT

MIDAS: 9649  
\*TRUE BASIN: 1  
\*SAMPLE STATION: 1

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH m	SAMPLE DATE															
	08/21/85		08/15/96		08/18/04		08/14/08		08/25/09		09/17/09		08/11/10		09/13/10	
	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	22.2	8.1	25.0	8.2	-	-	22.5	9.0	-	-	-	-	24.3	8.4	19.9	8.2
1.0	22.2	7.9	23.2	8.4	23.0	7.4	22.2	9.0	26.2	7.9	19.2	8.8	24.2	8.1	19.9	8.2
2.0	22.2	7.9	22.9	8.4	23.0	7.3	21.7	8.9	25.1	8.0	18.5	8.8	23.8	8.1	19.9	8.2
3.0	22.1	7.8	22.6	8.2	23.0	7.2	21.1	8.7	25.0	8.0	18.4	8.6	23.2	8.1	19.8	8.2
4.0	22.0	7.8	21.8	6.5	23.0	7.0	20.6	7.6	24.8	7.8	18.4	8.5	23.1	7.8	19.8	8.2
5.0	22.0	7.7	20.0	4.7	23.0	6.7	20.6	7.4	22.5	5.2	18.3	8.6	23.0	7.7	19.8	8.2
6.0	22.0	7.7	19.2	3.8	22.0	4.4	19.8	5.5	20.5	2.6	18.1	8.7	22.7	7.2	19.7	8.2
7.0	20.8	2.1	18.8	2.5	20.0	0.3	17.7	0.4	18.9	0.6	17.9	8.8	21.6	4.4	19.6	8.2
8.0	20.0	0.7	18.4	2.1	19.0	0.2	15.8	0.2	18.2	0.3	17.6	8.7	19.2	0.4	19.5	8.2
9.0	17.0	0.3	17.0	1.2	17.0	0.1	14.2	0.2	17.6	0.3	17.3	8.7	16.5	0.0	19.3	8.2
10.0	15.8	0.3	14.0	0.1	16.0	0.1	12.6	0.2	16.4	0.4	17.2	8.4	15.4	0.0	19.2	8.3
11.0	-	-	12.3	0.1	-	-	12.1	0.2	15.4	0.4	17.0	7.4	14.5	0.0	16.6	1.0
12.0	-	-	-	-	-	-	11.8	0.2	15.1	0.4	15.2	0.7	14.4	0.0	14.2	0.0

## **WATER QUALITY SUMMARY**

### **SCRAGGLEY LAKE, T05 R01 NBPP**

Midas: 9649, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include data for bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data have been collected from Scraggley Lake since 1984. During this period, 3 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Scraggley Lake is considered to be slightly above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Scraggley Lake is low.

Water Quality Measures: Scraggley Lake is a non-colored lake (average color 24 SPU) with an average SDT of 5.4m (17.7ft). Water column TP and Chla data are very limited with only 1 result for each: TP of 8 parts per billion (ppb) and Chla of 3.7 ppb. Recent dissolved oxygen (DO) profiles show moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: scra9649, Revised: 3/05, By: JM